



COMPETITION SPECIFICATION SHEET 5/23/2005

Manufacturer: Volkswagen
Model: GTI VR6
Applicable Years: 99-04

This specification sheet was developed by the U.S. touring Car Championship and will be used both by the series technical administrator to establish technical compliance and by applicable series administrators to maintain performance parity and equal competition amongst the USTCC competitors. In addition to this CSS the technical administrator may also use, but is not limited to also using the following items to check compliance: Electronic Parts Catalogs, Technical Information Systems, and the FIA/ASN Homologation forms, or equivalent documentation.

The specifications within this form include all modifications that have been approved by USTCC specifically for the vehicle model(s) and year(s) listed on this page. The parts, specifications and assemblies used shall be those for the unmodified stock vehicle, those permitted within the NASA regulations and or within this CSS. If the stock parts, specifications, and/or assemblies exceed the performance potential of those approved within this form, then the parts, specifications, and/or assemblies used shall meet those listed within this form.

The Competition Specification Sheet is a permissive document. The exact configuration of any modification allowed within this CSS is subject to the approval of the technical administrator.

1. GENERAL VEHICLE DESCRIPTION

Body Type (sedan, coupe, hatchback):	hatchback
Engine location (front, mid, rear):	front
Drive Type (front, rear, AWD):	front
Wheelbase (cm)	97.3
Induction Type:	NA
Minimum Weight:	2450lbs (12 valve)
Minimum Weight:	2660lbs (24 valve)

2. ENGINE

OEM Engine Code Designation:	
Number of Cylinders:	6
Maximum Displacement (cc):	2792
Rev limit req'd?:	no
Compression ratio:	10.0:1
Piston Stroke (mm):	90.3mm
Restrictors Req'd?:	no
Cylinder Block Part # (stock):	021-103-101-C Volkswagen
Cylinder Block Bore (mm):	81.51
Cylinder Head Part # (stock):	021-103-351-C Volkswagen
Intake Valve Head Diameter (mm):	39.00

Exhaust Valve Head Diameter (mm):	34.00
Intake Port Dimensions at Manifold Face:	Height: 52.0mm Width: 26.5mm (oval)
Intake Port Work Allowed? (Yes/No)	no
Exhaust Port Dimensions at Manifold Face:	Height: 40.0mm Width: 21.5mm (oval)
Connecting Rod Length (centerlines, mm):	164mm
Reciprocating Assembly (grams):	Rod 653gr.
	Piston 439.4gr.
	Crank 46 lbs. 13oz
Aftermarket Rods Allowed?:	no
Aftermarket Pistons Allowed?:	Yes
Camshaft Rocker Arm Ratio:	N/A
Type of Cam Follower (roller, solid, etc.)	Flat Hydraulic
Camshaft Max Lift at Cam Lobe:	0.288
Crankshaft Part Number (stock):	021-105-101-C Volkswagen
Crankshaft Mass (kg):	46 lbs. 13oz
Flywheel Mass (kg):	450 / open
Ring Gear Diameter (mm):	285.64
Intake Manifold Part # (stock):	Upper 021-133-203-A
	Lower 021-133-204-A
Int. Manifold Port Size @ Head Face:	Height: 54.0mm Width: 26.0mm (stock)
Allow Port Match to Head?	no
Throttle Body Bore Diameter (mm):	67/open
# of Throttle Bodies:	1
Intermediate Port Matching Allowed?:	yes
Turbocharger Manufacturer and Model:	N/A
Alternate Turbocharger Allowed?:	N/A
Number of Turbo Compressors:	N/A
Compressor Inlet Diameter (mm):	N/A
Maximum Boost Pressure (psi):	N/A
Turbo Intercooler Part # (stock):	N/A
Turbo Intercooler Dimensions (mm):	N/A
Engine Miscellaneous:	Techtonics Tuning 42mm Intake valve P/N: 109 128 permitted on 12V model.

3. DRIVETRAIN

Transmission Part # (stock)	xxx
Number of Forward Speeds:	5
Alternate Transmission Allowed?:	no
Alternate Transmission Part #:	n/a
Gear Ratios (stock / allowed):	
1 st :	3.30
2 nd :	1.90
3 rd :	1.32
4 th :	1.03
5 th :	.84
6 th :	n/a
Final Drive Ratio (stock / allowed):	3.36 – 3.90 / open
Drivetrain Miscellaneous:	

4. SUSPENSION, CHASSIS, BODY

Front Suspension Type:	Single A-arm coil
Rear Suspension Type:	Beam coil
Suspension, Chassis, Body Miscellaneous:	